Microsoft

.net developer training

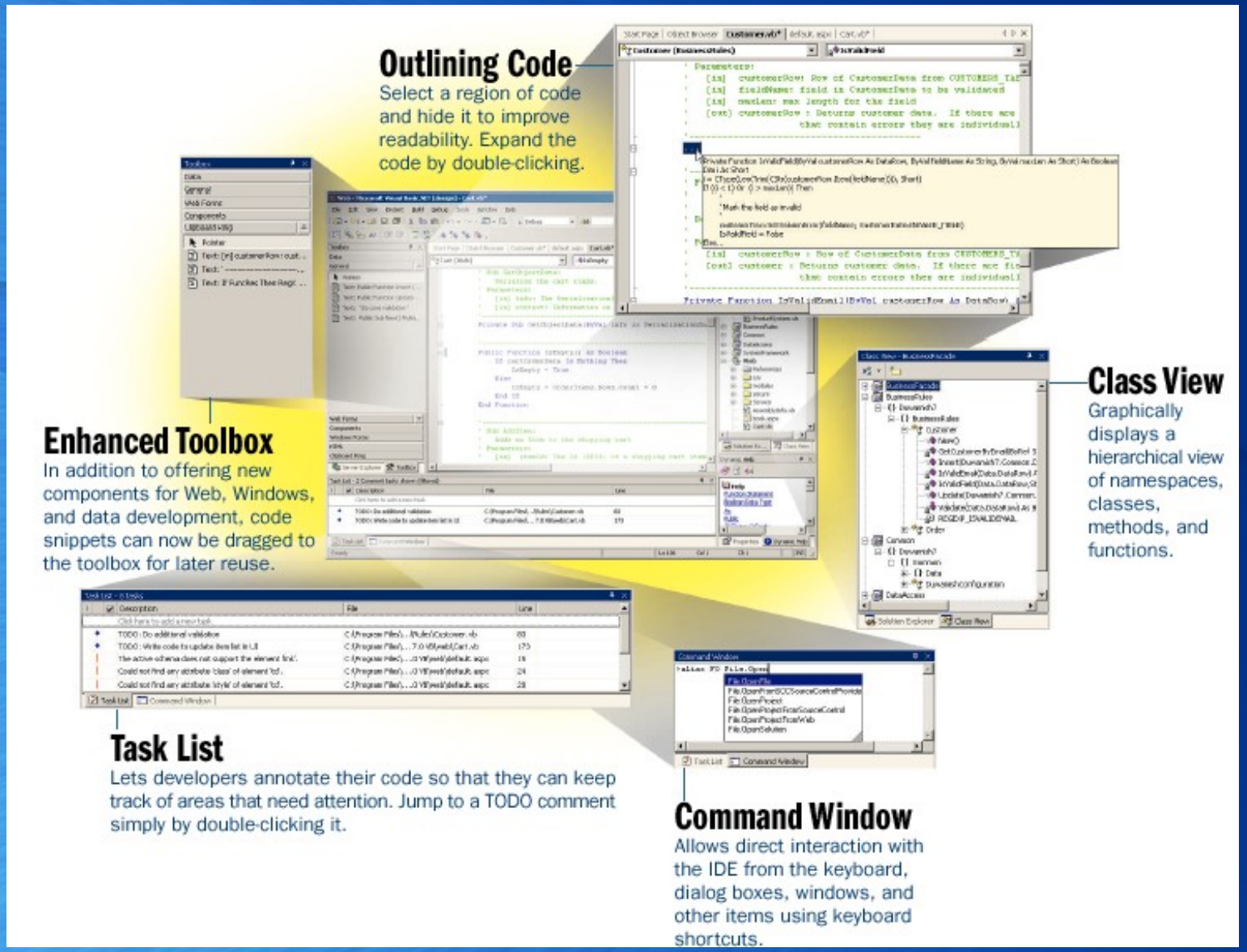
Create XML Web Services and Applications with Visual Studio .NET

Visual Studio® .NET
RAD for the Next Generation Web

Module 02 Agenda

- The Visual Studio .NET Integrated Development Environment
- Build the Next Generation Internet
- Solutions that span any device and integrate with any platform
- Build powerful applications quickly

Visual Studio .NET
Integrated Development Environment



Outlining Code
Select a region of code and hide it to improve readability. Expand the code by double-clicking.

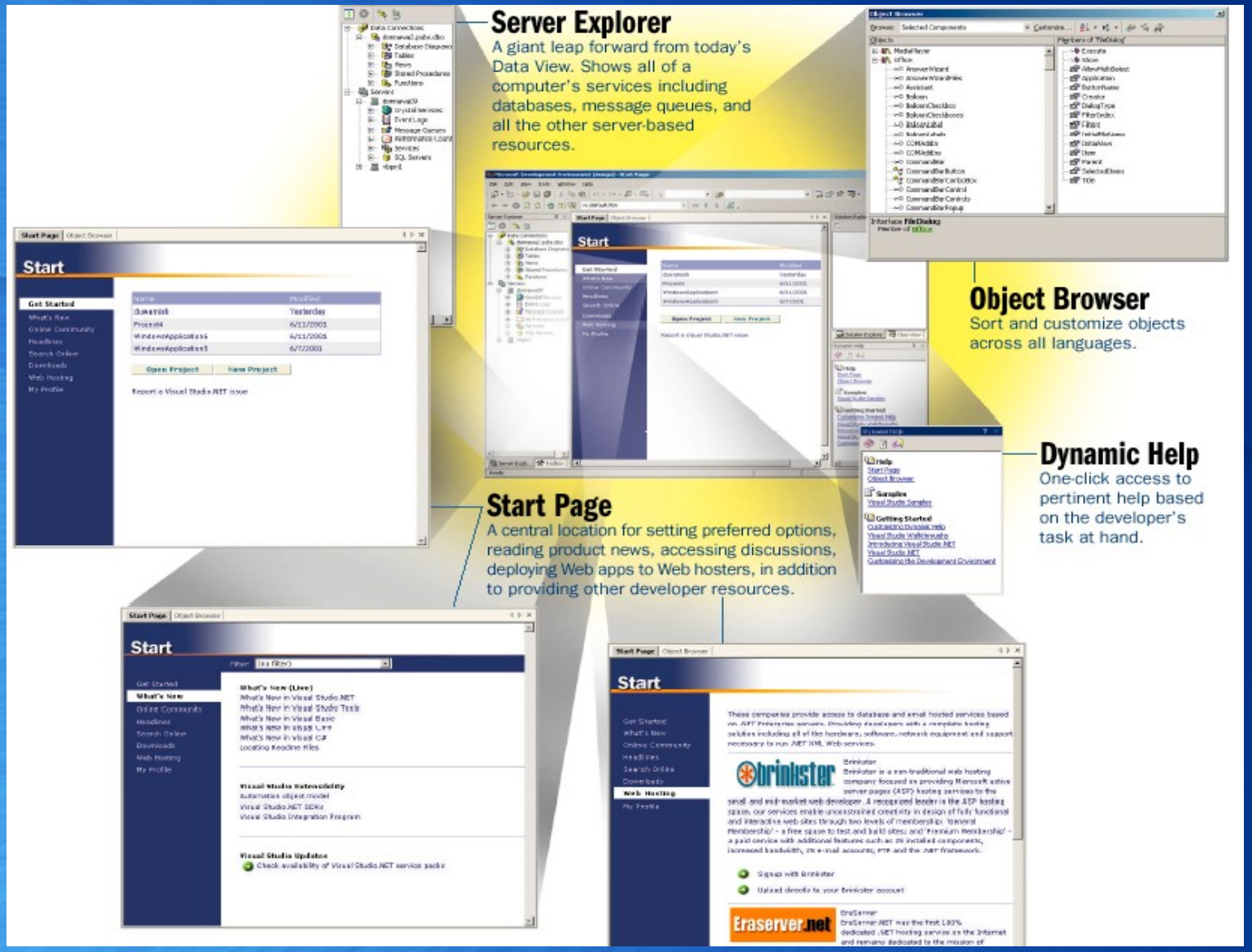
Enhanced Toolbox
In addition to offering new components for Web, Windows, and data development, code snippets can now be dragged to the toolbox for later reuse.

Class View
Graphically displays a hierarchical view of namespaces, classes, methods, and functions.

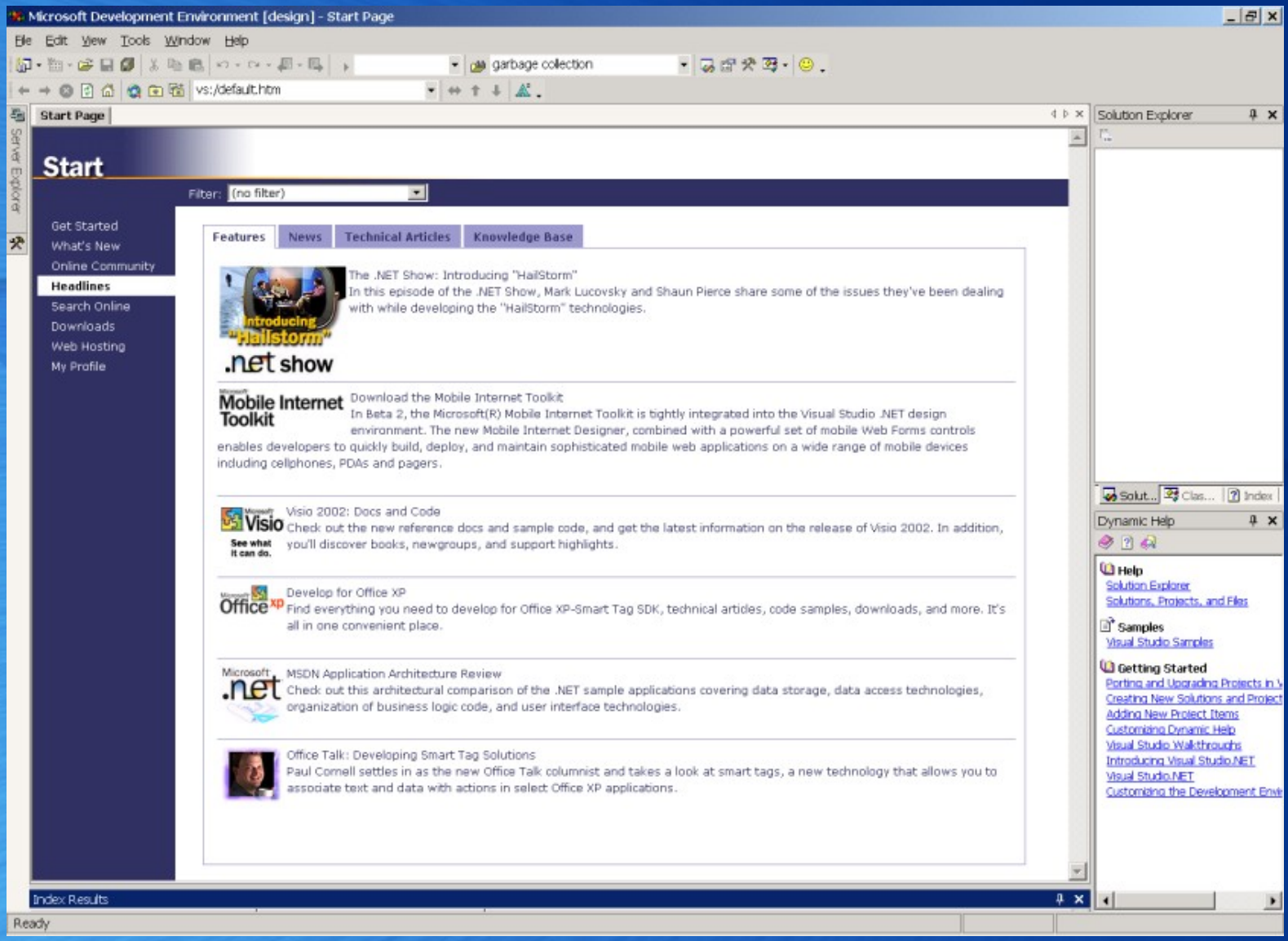
Task List
Lets developers annotate their code so that they can keep track of areas that need attention. Jump to a TODO comment simply by double-clicking it.

Command Window
Allows direct interaction with the IDE from the keyboard, dialog boxes, windows, and other items using keyboard shortcuts.

Visual Studio .NET
Integrated Development Environment

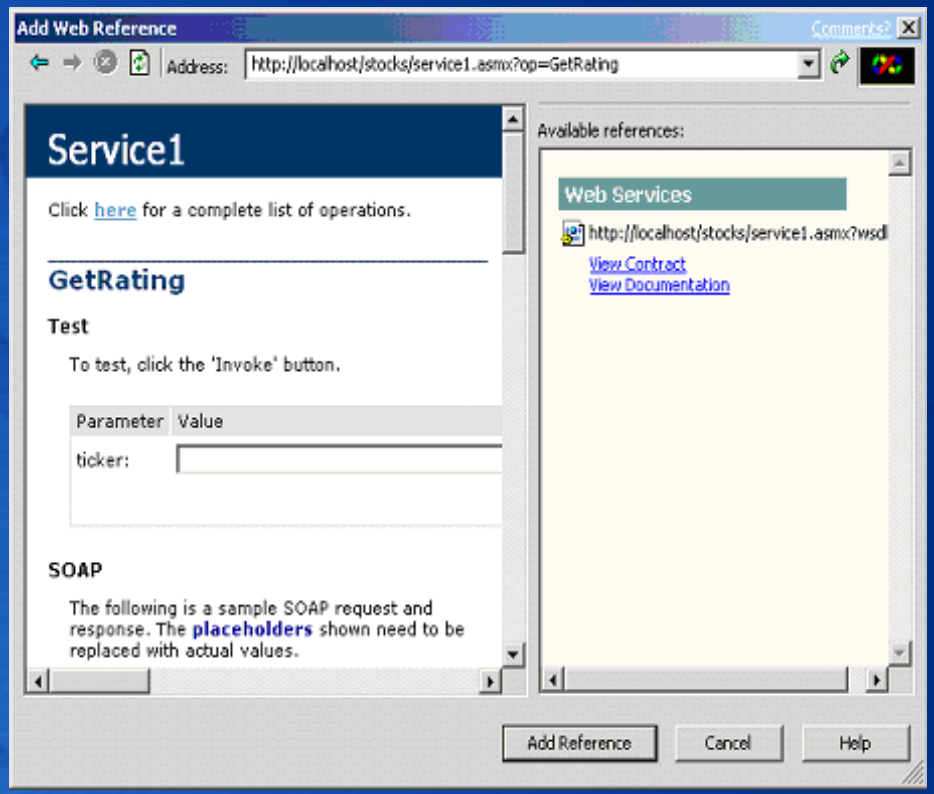

Server Explorer
A giant leap forward from today's Data View. Shows all of a computer's services including databases, message queues, and all the other server-based resources.
Object Browser
Sort and customize objects across all languages.
Dynamic Help
One-click access to pertinent help based on the developer's task at hand.
Start Page
A central location for setting preferred options, reading product news, accessing discussions, deploying Web apps to Web hosters, in addition to providing other developer resources.
Start
Get Started
What's New
Online Community
Headlines
Search Online
Downloads
Web Hosting
My Profile
Open Project
New Project
Report a Visual Studio .NET issue
brinkster
Eraserver.net

Visual Studio .NET
Integrated Development Environment Demo


Microsoft Development Environment [design] - Start Page
File Edit View Tools Window Help
garbage collection
vs:/default.htm
Start Page
Start
Filter: (no filter)
Get Started
What's New
Online Community
Headlines
Search Online
Downloads
Web Hosting
My Profile
Features
News
Technical Articles
Knowledge Base
The .NET Show: Introducing "HailStorm"
In this episode of the .NET Show, Mark Lucovsky and Shaun Pierce share some of the issues they've been dealing with while developing the "HailStorm" technologies.
Introducing "Hailstorm"
.net show
Mobile Internet Toolkit
Download the Mobile Internet Toolkit
In Beta 2, the Microsoft(R) Mobile Internet Toolkit is tightly integrated into the Visual Studio .NET design environment. The new Mobile Internet Designer, combined with a powerful set of mobile Web Forms controls enables developers to quickly build, deploy, and maintain sophisticated mobile web applications on a wide range of mobile devices including cellphones, PDAs and pagers.
Visio
See what it can do.
Visio 2002: Docs and Code
Check out the new reference docs and sample code, and get the latest information on the release of Visio 2002. In addition, you'll discover books, newsgroups, and support highlights.
Office XP
Develop for Office XP
Find everything you need to develop for Office XP-Smart Tag SDK, technical articles, code samples, downloads, and more. It's all in one convenient place.
Microsoft .net
MSDN Application Architecture Review
Check out this architectural comparison of the .NET sample applications covering data storage, data access technologies, organization of business logic code, and user interface technologies.
Office Talk: Developing Smart Tag Solutions
Paul Cornell settles in as the new Office Talk columnist and takes a look at smart tags, a new technology that allows you to associate text and data with actions in select Office XP applications.
Solution Explorer
Dynamic Help
Help
Solution Explorer
Solutions, Projects, and Files
Samples
Visual Studio Samples
Getting Started
Adding New Project Items
Customizing Dynamic Help
Visual Studio Walkthroughs
Introducing Visual Studio.NET
Visual Studio.NET
Index Results
Ready

Build the Next Generation Internet
XML Web Services

- Create and Connect to Components on Any Platform With Xml Web Services
- Convert existing functions into reusable XML Web Services callable from any computing platform
- Reuse Web Services in Visual Studio .NET solutions directly
- Find XML Web Services in the UDDI directory

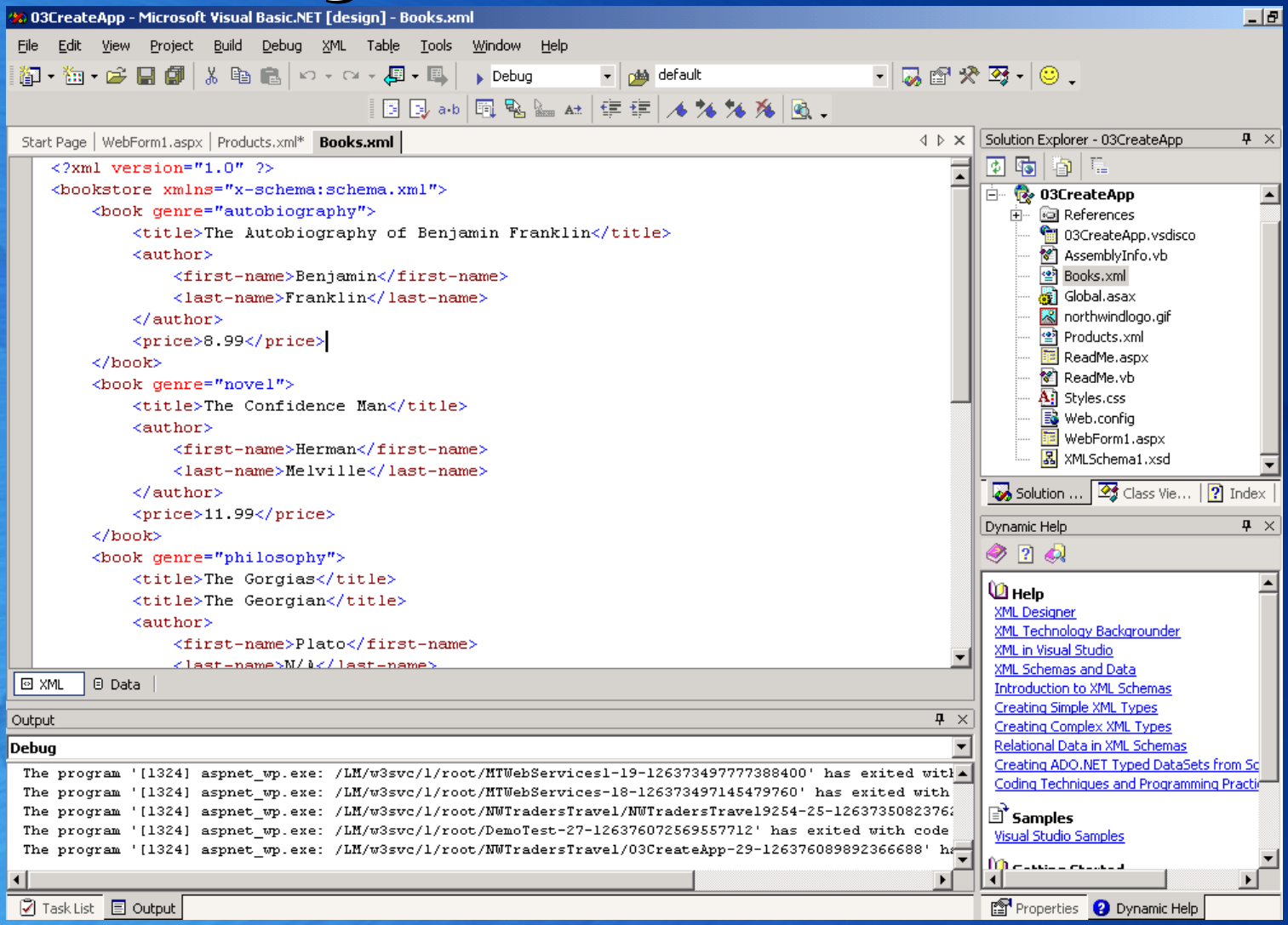


Build the Next Generation Internet
Database Applications with XML

- Use built-in ADO .NET tools for high-speed access to SQL Server, or any other database using XML natively
- Leverage ADO .NET's intrinsic XML format to share data across platforms
- Create and manipulate web data by using the Visual XML designer
- XML IntelliSense helps you design and edit your data with ease

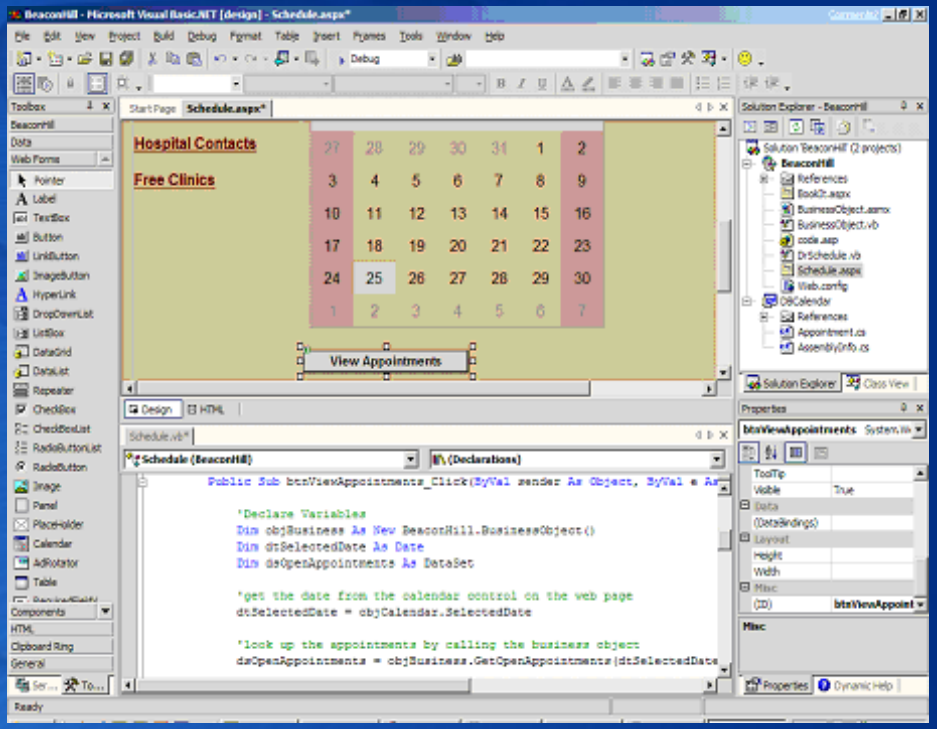
Build the Next Generation Internet
XML Designer Demo

- XML Designer



Build the Next Generation Internet
Web Applications

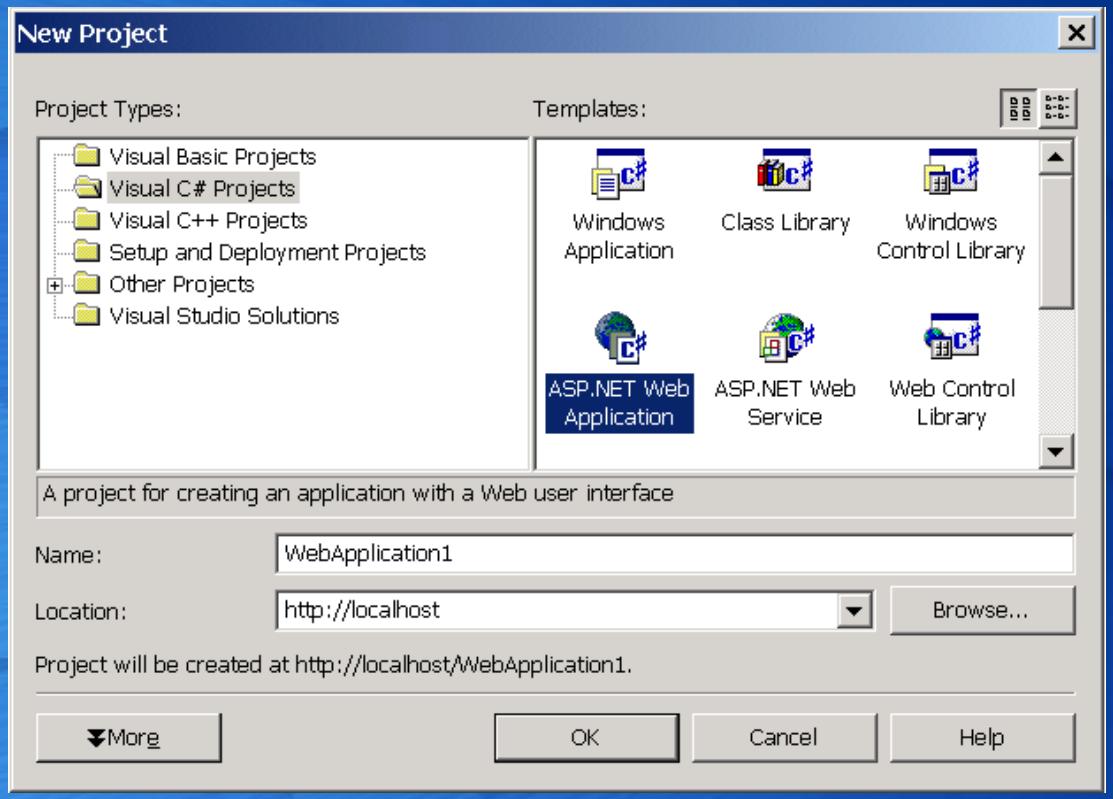
- **Complete Web Development Environment**
- Visual Studio now includes a shared Web Page Editor and Style Sheet Editor
- Develop Web applications with any language including Visual Basic, C# and existing ASP script
- Automatic client-side validation code generated for Internet Explorer and Netscape



Build Powerful Applications Quickly

Demo

- Creating Web Applications



Build Powerful Applications Quickly
Choice of Modernized Languages

Visual Basic .NET

- Inheritance - Create base objects and inherit the code to save development time
- Write your error handling once, new Structured Exception Handling simplifies your code
- Full Object Oriented programming and the ability to build multi-threaded applications

Visual C#

- Increased productivity for the C and C++ developer
- First class support for components with properties, methods and events
- Built-in support for versioning

Build Powerful Applications Quickly
Choice of Modernized Languages

Visual C++

- Reduce the amount of code you write with Attributed programming
- Integrate existing applications with the .NET Framework using Managed Extensions for C++
- ATL Server provides the fastest web apps for C++ developers

Build Powerful Applications Quickly
Choice of Modernized Languages

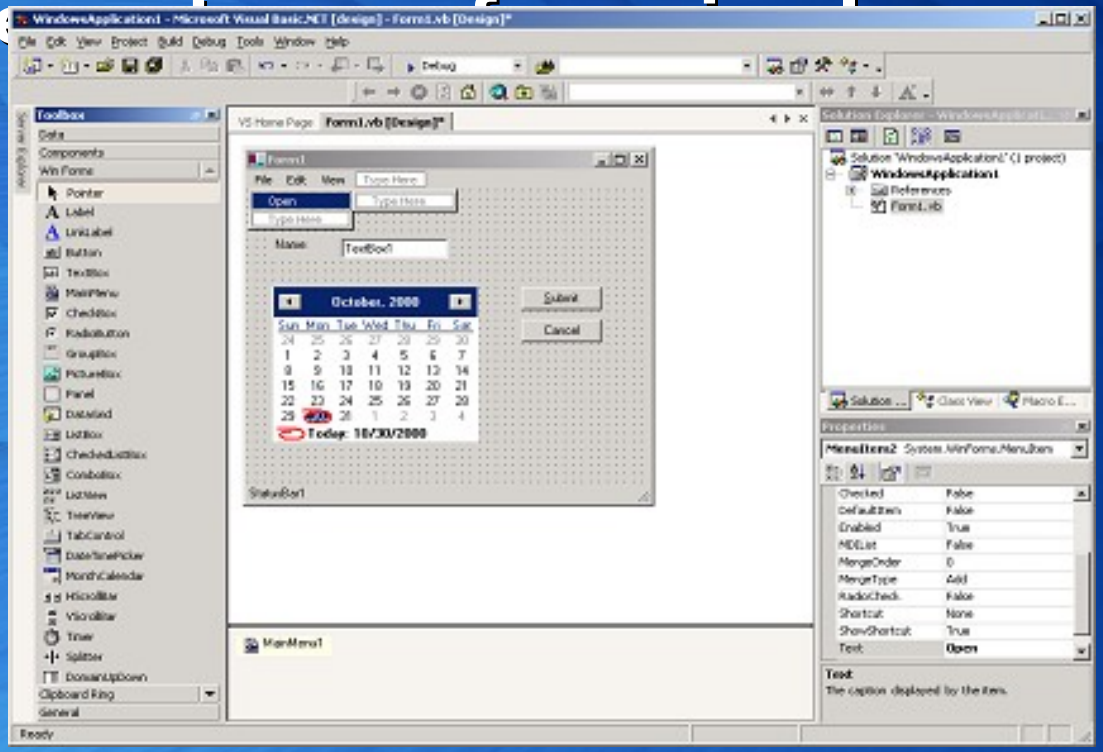
Visual J#

- It is a Java-language development tool for building applications and services on the .NET Framework
- Integrates the Java-language syntax into the Visual Studio .NET shell

  (Subset of JDK 1.1.4 and Visual J++ 6.0 libraries)
- Enables the Java-language to integrate with the over twenty other programming languages supported by the .NET Framework

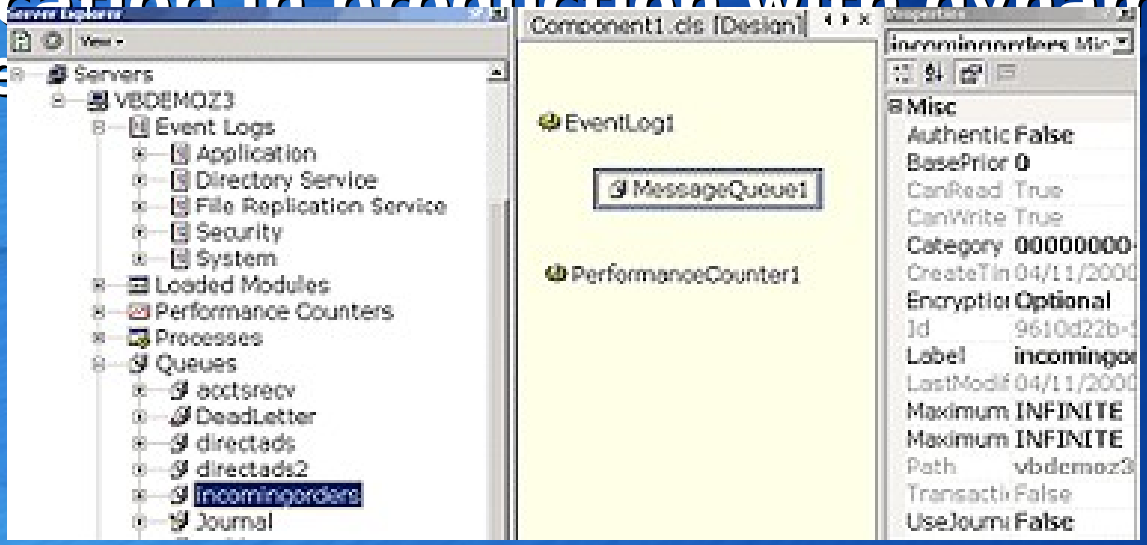
Build the Next Generation Internet
Windows Applications

- Build new Windows forms that can be reused in any .NET language
- Reuse standard forms with visual inheritance
- Control anchoring and docking
- Add me



Build the Next Generation Internet
Server Applications

- Compose middle-tier components visually with the Visual Component Designer
- Drag and Drop Message Queues, Timers, and Event Logs from the Toolbox to reduce the amount of code required to build middle-tier components
- Change the behavior of your running application in production with dynamic prope



Solutions That Span Any Device
Develop for Handheld Devices

- Thin Client Devices: Internet Enabled Devices
- Build a single mobile web interface to support a broad range of Web devices
- Server side mobile controls intelligently generate the appropriate rendering and pagination for the target web device

Shared Extensible Tools
Extensibility and Partners

- Customize the environment
  - Record and play productivity macros
  - Integrate with third-party tools
- IDE is extensible
  - Project sub-system
  - Designers
  - Compilers
- Visual Studio Integration Partners (VSIP)
  - Integrate directly into the Visual Studio .NET IDE
  - Support for new languages

Summary

- Build the Next Generation Internet
  - XML Web Services
  - High-performance database applications with XML
  - Build powerful server applications
- Solutions that span any device and integrate with any platform
  - Complete Web development environment
  - Build Powerful Windows applications
  - Develop for Handheld devices
- Build powerful applications quickly
  - Shared Integrated Development Environment
  - Jump-Start the development process
  - Choice of modernized languages that are simple to use, powerful, and productive

Resources

- http://msdn.microsoft.com/vstudio/nextgen/
- http://www.gotdotnet.com/
- http://www.ASP.NET/
- *The Visual Studio .NET Home Page* - The place to go for the basics, downloads and the latest news and updates http://msdn.microsoft.com/vstudio/nextgen/Technology/frameworkdefault.asp
- *Customizing Visual Studio .NET* - A look at macros, wizards, add-ins and the Visual Studio .NET integration program http://msdn.microsoft.com/vstudio/nextgen/Technology/programmability.asp

In-Depth Training On Visual Studio .NET

Direct from Microsoft

- **2373A: Programming with Microsoft Visual Basic .NET (Prerelease)**
- **2373B: Programming with Microsoft Visual Basic .NET**
  - **Available in Mar 2002**
- **2524A: Developing XML Web Services (Visual C# .NET Beta 2)**
- **2310A: Developing Web Applications Using Microsoft Visual Studio .NET**
  - **Available in May 2002**

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